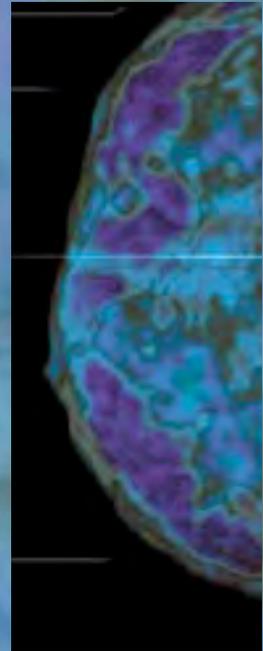
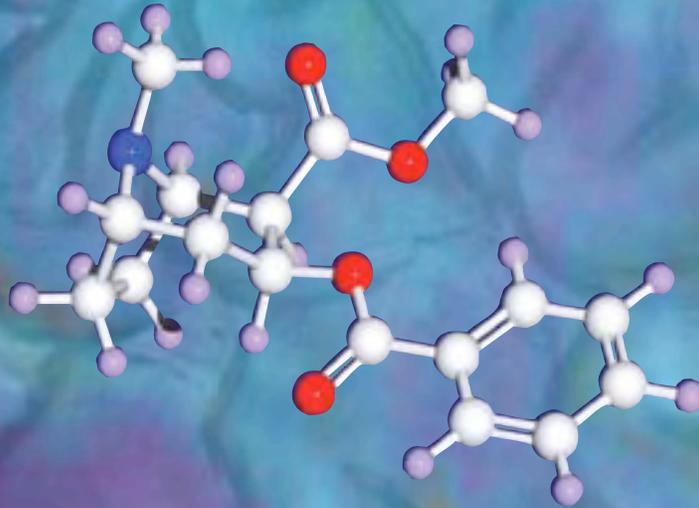
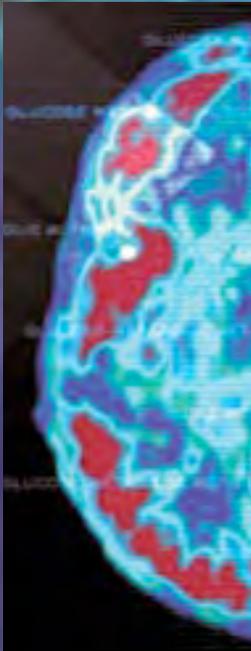


# THE SCIENCE OF ADDICTION: TRANSLATING NEW INSIGHTS INTO BETTER PSYCHIATRIC PRACTICE



AMERICAN PSYCHIATRIC  
ASSOCIATION  
160TH ANNUAL MEETING  
SAN DIEGO, CA  
MAY 19-24, 2007

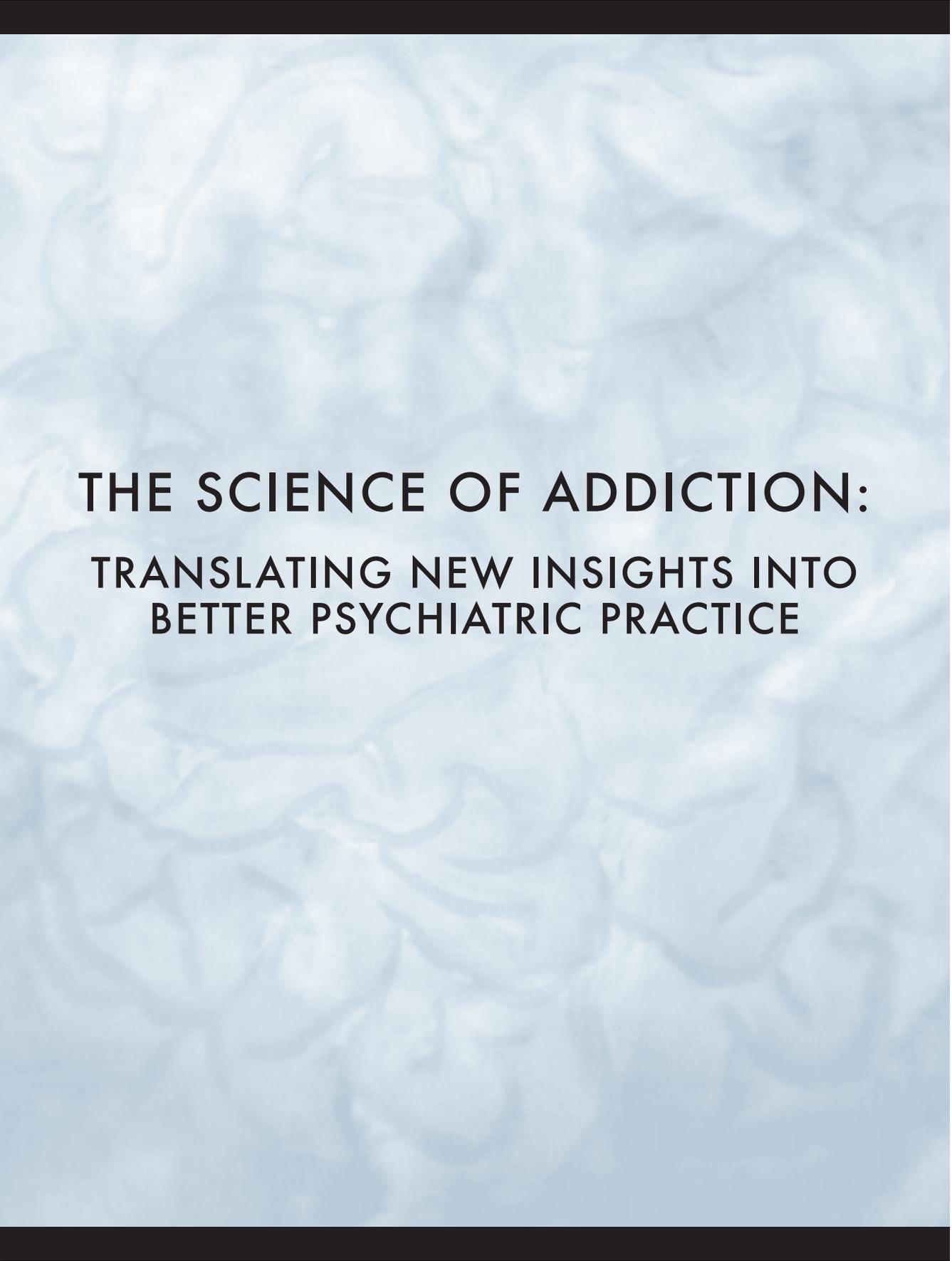
**NIDA** NATIONAL INSTITUTE  
ON DRUG ABUSE

A Collaboration of the  
National Institute on Drug Abuse,  
National Institutes of Health, and the  
American Psychiatric Association



ADDRESSING PATIENT NEEDS  
ACCESS, PARITY AND HUMANE CARE

160TH ANNUAL MEETING  
SAN DIEGO, CALIFORNIA, MAY 19-24, 2007  
AMERICAN PSYCHIATRIC  
ASSOCIATION



**THE SCIENCE OF ADDICTION:  
TRANSLATING NEW INSIGHTS INTO  
BETTER PSYCHIATRIC PRACTICE**



Dear Colleague:

On behalf of the National Institute on Drug Abuse (NIDA) and the American Psychiatric Association (APA), it is our privilege to welcome you to a special research-based program track—*The Science of Addiction: Translating New Insights Into Better Psychiatric Practice*—during the 160th APA Annual Meeting.

This year's scientific track features compelling lectures on addiction-related topics ranging from the neurobiology of free will to the role of stress and genetics to treatment access. The ongoing collaboration between NIDA and APA, following on 2004's successful scientific track on addiction, will fuel the growing momentum needed to raise awareness of and address emerging issues in addiction and psychiatry.

Science continues to add to this knowledge as studies incorporating genetics, environmental factors, and modern brain imaging technologies are revealing new knowledge about both mental illness and substance abuse disorders. Indeed, understanding the interplay of neurobiology and social-behavioral factors has relevance for drug addiction and mental illness, and highlights the need for practitioners to identify and treat both conditions.

Interactive workshops and symposia will cover gene-environment interactions, along with stress responsivity, obesity and brain imaging, methamphetamine abuse, and promising new approaches to substance abuse treatment. Other sessions will address such vital questions as the directionality of comorbid drug abuse and other psychiatric disorders—which comes first?—and how to meet drug abuse treatment needs in the criminal justice system.

The variety of information presented will offer participants new insights into common risk factors and potential treatments for multiple disorders. We wish to again thank the APA's Council on Addiction Psychiatry for bringing this timely and productive collaborative series to the Annual Meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "N. Volkow", written over a light blue horizontal line.

Nora D. Volkow, M.D.  
Director  
National Institute on Drug Abuse

A handwritten signature in black ink, appearing to read "Pedro Ruiz", written over a light blue horizontal line.

Pedro Ruiz, M.D.  
President  
American Psychiatric Association



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## Planning Committee

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### **National Institute on Drug Abuse**

#### *NIDA Staff*

Nora D. Volkow, M.D.

Director

National Institute on Drug Abuse

Timothy P. Condon, Ph.D.

Deputy Director

National Institute on Drug Abuse

Nicolette Borek, Ph.D.

Deputy Chief

Behavioral and Brain Development Branch

Division of Clinical Neuroscience and

Behavioral Research

Redonna K. Chandler, Ph.D.

Chief

Services Research Branch

Division of Epidemiology, Services and

Prevention Research

Allison Chausmer, Ph.D.

Health Scientist Administrator

Behavioral and Cognitive Science Research Branch

Division of Basic Neurosciences and

Behavior Research

Wilson M. Compton, III, M.D.

Director

Division of Epidemiology, Services and

Prevention Research

Kevin Conway, Ph.D.

Associate Director

Division of Clinical Neuroscience and

Behavioral Research

Gaya Dowling, Ph.D.

Deputy Chief

Science Policy Branch

Office of Science Policy and Communications

Ahmed Elkashef, M.D.

Chief

Clinical/Medical Branch

Division of Pharmacotherapies and Medical

Consequences of Drug Abuse

Joseph Frascella, Ph.D.

Director

Division of Clinical Neuroscience and

Behavioral Research

Steven J. Grant, Ph.D.

Chief

Clinical Neuroscience Branch

Division of Clinical Neuroscience and

Behavioral Research

Teresa Levitin, Ph.D.

Director

Office of Extramural Affairs

Lucinda L. Miner, Ph.D.

Deputy Director

Office of Science Policy and Communications

Ivan D. Montoya, M.D.  
Medical Officer  
Medications Research Grants Branch  
Division of Pharmacotherapies and Medical  
Consequences of Drug Abuse

Jonathan D. Pollock, Ph.D.  
Chief  
Genetics and Molecular Neurobiology  
Research Branch  
Division of Basic Neurosciences and  
Behavior Research

David Shurtleff, Ph.D.  
Director  
Division of Basic Neurosciences and  
Behavior Research

Vincent L. Smeriglio, Ph.D.  
Chief  
Behavioral and Brain Development Branch  
Division of Clinical Neuroscience and  
Behavioral Research

Jane Smither  
Constituent Liaison  
Science Policy Branch  
Office of Science Policy and Communications

Laurence R. Stanford, Ph.D.  
Deputy Director  
Division of Clinical Neuroscience and  
Behavioral Research

Anna Staton, M.P.A.  
Public Health Analyst  
Science Policy Branch  
Office of Science Policy and Communications

Francis J. Vocci, Ph.D.  
Director  
Division of Pharmacotherapies and Medical  
Consequences of Drug Abuse

Susan R. B. Weiss, Ph.D.  
Chief  
Science Policy Branch  
Office of Science Policy and Communications

## **American Psychiatric Association**

### *APA Staff*

Darrel A. Regier, M.D., M.P.H.  
Director  
APA Office of Research  
Executive Director  
American Psychiatric Institute for  
Research and Education

Beatrice A. Eld  
Senior Program Director  
Quality Improvement and Psychiatric Services

Deborah J. Hales, M.D.  
Director  
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Gary McMillen  
Acting Director  
Office of Scientific Programs

Cathy L. Nash  
Director  
Meetings and Conventions

### *APA Council on Addiction Psychiatry*

Eric C. Strain, M.D.  
Chair  
Council on Addiction Psychiatry

### *APA Scientific Program Committee*

Robert W. Guynn, M.D.  
Chair  
Scientific Program Committee

## Conference Information

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This program book provides information about workshops, lectures, and symposia organized by NIDA. These activities are highlighted in blue.

NIDA has also included a number of other sessions from the APA program based on scientific content that complements the theme.

### Invited Lectures:

Nora D. Volkow, M.D., Director, NIDA, Frontiers of Science Lecture on *The Neurobiology of Free Will in Addictive Disorders*, on Tuesday, May 22, 2007, 11:00 a.m. at the San Diego Convention Center, Ballroom 6 C/D/E/F, Upper Level (Session #L17).

The Honorable Patrick J. Kennedy, lecture on *The Road to Equity: Marching Toward a Just Treatment of Mental Illness and Addiction in America*, on Monday, May 21, 2007, 9:00 a.m. at the San Diego Convention Center, Ballroom 6 C/D/E/F, Upper Level (Session #L04).

Mary Jeanne Kreek, M.D., Frontiers of Science Lecture on *Stress Responsivity, Gene Variants, and Persistence of Addictions*, on Monday, May 21, 2007, 11:00 a.m. at the San Diego Convention Center, Room 33 A/B/C, Upper Level (Session #L08).

William R. Miller, Ph.D., Oskar Pfister Award Lecture on *Spiritus Contra Spiritum: The Strange Case of Spirituality and Addiction*, on Monday, May 21, 2007, 11:00 a.m. at the San Diego Convention Center, Ballroom 6B, Upper Level (Session #L06).

### Continuing Medical Education (CME)

The American Psychiatric Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Psychiatric Association designates this educational activity (the Annual Meeting scientific program, of which this track is a part) for a maximum of 66 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclosure information for all Scientific Program Committee members and all Annual Meeting faculty can be found in the Annual Meeting Disclosure Index within the APA Annual Meeting Program Book. In addition, each speaker is required to inform the audience of any off-label discussion that will be presented during his/her presentation.

## Exhibit

A wide variety of materials is available at the NIDA exhibit, Booth 726, APA Exhibit Hall, San Diego Convention Center, Halls B-D. Please allow time to visit the NIDA exhibit to learn more about drug abuse research, prevention, and treatment.

## Web Site

Information about NIDA research, programs, and events is accessible through NIDA's Web site at [www.drugabuse.gov](http://www.drugabuse.gov).

# Agenda

Monday, May 21, 2007

9:00 a.m. – 10:30 a.m.    Lecture (Session #L04)  
**The Road to Equity: Marching Toward a Just Treatment of Mental Illness and Addiction in America**  
San Diego Convention Center, Upper Level, Ballroom 6 C/D/E/F

Co-Chairs:    Nora D. Volkow, M.D.  
Director, National Institute on Drug Abuse

James H. Scully, Jr., M.D.  
American Psychiatric Association

Speaker:      The Honorable Patrick J. Kennedy

9:00 a.m. – 10:30 a.m.    Issue Workshop (Session #IW007)  
**Gene-Environment-Development Interactions: Implications for Psychiatric and Substance Abuse Disorders**  
San Diego Convention Center, Upper Level, Room 27A

Chair:          Jonathan D. Pollock, Ph.D.  
National Institute on Drug Abuse

Discussant:    Kathleen Merikangas, Ph.D.  
National Institute of Mental Health

Speakers:      Julia Kim-Cohen, Ph.D.  
Yale University

Stephen J. Suomi, Ph.D.  
National Institute of Child Health and Human Development

Francis A. Champagne, Ph.D.  
Columbia University

Cornelius T. Gross, Ph.D.  
European Molecular Biology Laboratory, Monterotondo,  
Adriano Buzzati-Traverso Campus

Shaded entries indicate NIDA-organized sessions.

Monday, May 21, 2007 (continued)

9:00 a.m. – 10:30 a.m. Issue Workshop (Session #IW006)  
**Grantwriting Workshop: Research Funding Opportunities From the National Institute on Drug Abuse**  
San Diego Convention Center, Upper Level, Room 26 A/B

Chair: Lucinda L. Miner, Ph.D.  
National Institute on Drug Abuse

Speakers: Teresa Levitin, Ph.D.  
National Institute on Drug Abuse

Joseph Frascella, Ph.D.  
National Institute on Drug Abuse

11:00 a.m. – 12:30 p.m. Oskar Pfister Award Lecture (Session #L06)  
**Spiritus Contra Spiritum: The Strange Case of Spirituality and Addiction**  
San Diego Convention Center, Upper Level, Ballroom 6B

Chair: John R. Petzet, M.D.  
Brigham and Women's Hospital

Speaker: William R. Miller, Ph.D.  
University of New Mexico, Albuquerque

11:00 a.m. – 12:30 p.m. Frontiers of Science Lecture (Session #L08)  
**Stress Responsivity, Gene Variants, and Persistence of Addictions**  
San Diego Convention Center, Upper Level, Room 33 A/B/C

Chair: Edward F. Foulks, M.D.  
Tulane University

Speaker: Mary Jeanne Kreek, M.D.  
The Rockefeller University

11:00 a.m. – 12:30 p.m. Scientific and Clinical Report (Session #SCR02)  
**Compulsive and Addictive Behaviors**  
San Diego Convention Center, Upper Level, Room 4

11:00 a.m. *Association of Cannabis Use With Prodromal Features of Psychosis and Behavioral Problems in Adolescents*

Principal Author: Juha M. Veijola, M.D.  
University of Oulu, Finland

Shaded entries indicate NIDA-organized sessions.

Monday, May 21, 2007 (continued)

12:00 p.m. – 1:30 p.m. Forum (Session #F04)  
**Substance Abuse in Your Patients:  
Beyond What is Taught in Your Residency**  
*(Residents and Medical Students are encouraged to attend)*  
San Diego Convention Center, Upper Level, Room 29 A/B

Chair: Nora D. Volkow, M.D.  
Director, National Institute on Drug Abuse

Speakers: Herbert D. Kleber, M.D.  
Columbia University

Thomas R. Kosten, M.D.  
Baylor College of Medicine

Paula D. Riggs, M.D.  
University of Colorado Health Sciences Center

Charles P. O'Brien, M.D., Ph.D.  
University of Pennsylvania School of Medicine

2:00 p.m. – 5:00 p.m. Symposium (Session #S05)  
**Insights on Obesity and Drug Addiction From Brain Imaging**  
San Diego Convention Center, Upper Level, Room 5B

Co-Chairs: Nora D. Volkow, M.D.  
Director, National Institute on Drug Abuse

Joseph Frascella, Ph.D.  
National Institute on Drug Abuse

Discussant: Nora D. Volkow, M.D.

**(Session continued on next page)**

Shaded entries indicate NIDA-organized sessions.

**(Session continued from previous page)**

- Speakers: Deborah Yurgelun-Todd, Ph.D.  
Harvard Medical School/McLean Hospital  
*Modulators of Orbitofrontal Activation in Response to Food Stimuli*
- Alain Dagher, M.D.  
Montreal Neurological Institute  
*Hunger as an Addiction*
- Dana M. Small, Ph.D.  
Yale University Medical School  
*Application of Incentive-Sensitization Theory of Drug Addiction to Overeating*
- Gene-Jack Wang, M.D.  
Brookhaven National Laboratory  
*Neuroimaging Studies of Obesity and Drug Addiction*

2:00 p.m. – 5:00 p.m.

Symposium (Session # S15)

**What is the Directionality of the Onset of Comorbid Substance Use and Other Psychiatric Disorders?**

San Diego Convention Center, Upper Level, Room 28 D/E

- Co-Chairs: Kevin P. Conway, Ph.D.  
National Institute on Drug Abuse
- Ivan D. Montoya, M.D.  
National Institute on Drug Abuse
- Discussant: Kathleen T. Brady, M.D.  
Medical University of South Carolina
- Speakers: Ronald Kessler, Ph.D.  
Harvard Medical School  
*Evidence of Directionality in Epidemiological Studies of Adults*

**(Session continued on next page)**

**(Session continued from previous page)**

- Speakers: Helena C. Kraemer, Ph.D.  
Stanford University Medical Center  
*Methodological Issues in Assessing the Directionality of the Onset of Substance Use and Other Comorbid Psychiatric Disorders*
- Michael Vanyukov, Ph.D.  
University of Pittsburgh  
*Genetic Factors and the Directionality of Comorbid Disorders*
- Monique Ernst, Ph.D.  
National Institute of Mental Health  
*Developmental Models to Explain the Onset and Directionality of Comorbid Disorders*
- Edward V. Nunes, M.D.  
Columbia University  
*Treatment Implications of Determining the Directionality of Comorbid Disorders*

2:00 p.m. – 5:00 p.m.      Symposium (#S16)  
**Categories and Dimensions in Clinical and Research Contexts of Diagnostic Classification for DSM-V**  
San Diego Convention Center, Upper Level, Room 29 A/B

- Chair: Helena C. Kraemer, Ph.D.  
Stanford University
- Discussant: Maritza Rubio-Stipec, Sc.D.  
APA Division of Research and APIRE
- Speakers: Michael E. Thase, M.D.  
University of Pittsburgh Medical Center  
*Severity is the Most Important Dimension of Depression*
- Katherine Shear, M.D.  
Columbia University  
*Anxiety Disorders*

**(Session continued on next page)**

Monday, May 21, 2007 (continued)

**(Session continued from previous page)**

Speakers:      Wilson M. Compton, III, M.D.  
National Institute on Drug Abuse  
*Dimensional Approaches to Diagnosing Addictive Disorders*

Andrew E. Skodol, M.D.  
New York State Psychiatric Institute  
*A Dimensional Prototype for Borderline Personality Disorder*

Patricia Suppes, M.D., Ph.D.  
University of Texas Southwestern Medical Center  
*Dimensional Approach to Major Psychoses*

11:00 a.m. – 12:30 p.m. Frontiers of Science Lecture (Session # L17)  
**The Neurobiology of Free Will in Addictive Disorders**  
San Diego Convention Center, Upper Level, Ballroom 6 C/D/E/F

Co-Chairs: Herbert D. Kleber, M.D.  
Columbia University

Eric C. Strain, M.D.  
Johns Hopkins Bayview Medical Center

Speaker: Nora D. Volkow, M.D.  
Director, National Institute on Drug Abuse

11:00 a.m. – 12:30 p.m. Issue Workshop (Session #IW042)  
**Methamphetamine Abuse and Addiction: Prevalence and Treatment**  
San Diego Convention Center, Upper Level, Room 28 D/E

Co-Chairs: Ahmed Elkashef, M.D.  
National Institute on Drug Abuse

Francis J. Vocci, Ph.D.  
National Institute on Drug Abuse

Speakers: Wilson M. Compton, III, M.D.  
National Institute on Drug Abuse

William F. Haning, III, M.D.  
University of Hawaii

Trevor Robbins, Ph.D.  
Cambridge University

Tuesday, May 22, 2007 (continued)

2:00 p.m. – 5:00 p.m.      Presidential Symposium (Session #PS04)  
**Current Research Advances:  
APA/NIMH/NIDA/NIAAA/NAMI Perspectives**  
San Diego Convention Center, Upper Level, Ballroom 6E

Co-Chairs:      Pedro Ruiz, M.D.  
   President, American Psychiatric Association

   Darrel A. Regier, M.D.  
   American Psychiatric Association

Speakers:      Nora D. Volkow, M.D.  
   National Institute on Drug Abuse

   Thomas R. Insel, M.D.  
   National Institute of Mental Health

   Ting-Kai Li, M.D.  
   National Institute on Alcohol Abuse and Alcoholism

   Suzanne E. Vogel-Scibilia, M.D.  
   National Alliance on Mental Illness

2:00 p.m. – 5:00 p.m.      Symposium (Session #S39)  
**Choosing the Right Treatment for Substance Abuse**  
San Diego Convention Center, Upper Level, Room 26 A/B

Chair:              Herbert D. Kleber, M.D.  
   Columbia University

Speakers:      Adam Bisaga, M.D.  
   Columbia University  
   *Cocaine Dependence: Choosing the Right Treatment*

   David M. McDowell, M.D.  
   Columbia University  
   *Choosing the Best Treatment: Marijuana and Club Drugs*

   Frances R. Levin, M.D.  
   Columbia University  
   *Treatment of Comorbid Conditions*

**(Session continued on next page)**

Tuesday, May 22, 2007 (continued)

**(Session continued from previous page)**

Speakers: Edward V. Nunes, M.D.  
Columbia University  
*Integrating Psychosocial Interventions With Medications in  
the Treatment of Substance Dependence*

Herbert D. Kleber, M.D.  
Columbia University  
*Choosing the Right Treatment for Opioid Dependence*

Shaded entries indicate NIDA-organized sessions.

9:00 a.m. – 10:30 a.m. Issue Workshop (Session #IW056)  
**Neuroimaging Research: Implications for the Treatment of Substance Abuse**  
San Diego Convention Center, Upper Level, Room 25A

Chair: Steven J. Grant, Ph.D.  
National Institute on Drug Abuse

Speakers: Christopher DeCharms, Ph.D.  
Omneuron, Inc., and Stanford University

Anna Rose Childress, Ph.D.  
University of Pennsylvania

Martin P. Paulus, M.D.  
University of California, San Diego

Clinton D. Kilts, Ph.D.  
Emory University

Cameron Carter, M.D.  
University of California, Davis

11:00 a.m. – 12:30 p.m. Issue Workshop (Session #IW068)  
**Promising Medications for the Treatment of Cocaine Addiction**  
San Diego Convention Center, Upper Level, Room 28C

Co-Chairs: Francis J. Vocci, Ph.D.  
National Institute on Drug Abuse

Ahmed Elkashef, M.D.  
National Institute on Drug Abuse

Speakers: Ahmed Elkashef, M.D.  
National Institute on Drug Abuse

Kyle M. Kampman, M.D.  
University of Pennsylvania

**(Session continued on next page)**

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Speakers: Bankole Johnson, M.D., Ph.D.  
University of Virginia

George F. Koob, Ph.D.  
Scripps Research Institute

11:00 a.m. – 12:30 p.m. Component Workshop (Session # CW50)  
**Managing Opiate Detoxification With Buprenorphine/Naloxone**  
San Diego Convention Center, Upper Level, Room 23C

Chair: John A. Renner, M.D.  
Boston University School of Medicine

Speakers: Eric C. Strain, M.D.  
Johns Hopkins Bayview Medical Center

Herbert D. Kleber, M.D.  
Columbia University

Ray C. Hsiao, M.D.  
University of Washington School of Medicine

11:00 a.m. – 12:30 p.m. Issue Workshop (Session #IW076)  
**Gay Men and Crystal Methamphetamine: A Review**  
San Diego Convention Center, Upper Level, Room 32A,

Co-Chairs: Eugene Lee, M.D.  
Cedars-Sinai Medical Center

Waguih W. Ishak, M.D.  
Cedars-Sinai Medical Center

Speakers: Douglas Braun-Harvey, M.A., MFT  
Sexual Dependency Institute, San Diego

Jeffery N. Wilkins, M.D.  
Cedars-Sinai Medical Center

2:00 p.m. – 5:00 p.m.

Symposium (Session #S54)

**Drug Abuse Treatment Within the Criminal Justice System:  
Addressing Our Nation's Public Health Needs**

San Diego Convention Center, Upper Level, Room 4

Co-Chairs: Timothy P. Condon, Ph.D.  
Deputy Director  
National Institute on Drug Abuse

Redonna K. Chandler, Ph.D.  
National Institute on Drug Abuse

Discussant: Redonna K. Chandler, Ph.D.  
National Institute on Drug Abuse

Speakers: Faye S. Taxman, Ph.D.  
Virginia Commonwealth University  
*Findings From a National Survey of Correctional  
Agencies on Substance Abuse Treatment and Health Services:  
Who Can Get Served?*

James A. Inciardi, Ph.D.  
University of Delaware  
*The Long-Term Effectiveness of Corrections-Based  
Treatment for Drug-Involved Offenders*

Roger H. Peters, Ph.D.  
University of South Florida  
*Mental Health and Co-Occurring Treatment Needs of  
Individuals in the Criminal Justice System*

Peter D. Friedmann, M.D.  
Rhode Island Hospital  
*Meeting the Medical Needs of Offenders*

Robert P. Schwartz, M.D.  
Friends Research Institute  
*Pharmacotherapy in Correctional Settings for  
Addictive and Other Mental Disorders*

2:00 p.m. – 5:00 p.m.

Symposium (Session #S65)

**A Picture of the Development of the Adolescent Brain:  
A Structural and Functional Assessment**

San Diego Convention Center, Upper Level, Room 29 A/B

Co-Chairs: Laurence R. Stanford, Ph.D.  
National Institute on Drug Abuse

David Shurtleff, Ph.D.  
National Institute on Drug Abuse

Discussant: Linda C. Mayes, M.D.  
Yale Child Study Center

Speakers: Elizabeth R. Sowell, Ph.D.  
University of California, Los Angeles  
*Mapping Adolescent Brain Maturation With Structural  
Magnetic Resonance Imaging*

Michael J. Rivkin, M.D.  
Children's Hospital Boston  
*The Usefulness of Diffusion Tensor Imaging for the Study of  
Brain Development in Children*

Perry F. Renshaw, M.D., Ph.D.  
McLean Hospital  
*Magnetic Resonance Spectroscopy Studies of  
Human Brain Development*

B.J. Casey, Ph.D.  
Sackler Institute  
*Risk Taking and the Adolescent Brain: Who is at Risk?*

2:00 p.m. – 5:00 p.m.

Symposium (Session #S71)

**Prenatal Nicotine Exposure: How Does It Relate to Developmental Vulnerabilities?**

San Diego Convention Center, Upper Level, Room 31A

Co-Chairs: Nicolette Borek, Ph.D.  
National Institute on Drug Abuse

Allison Chausmer, Ph.D.  
National Institute on Drug Abuse

Discussant: Bennett L. Leventhal, M.D.  
University of Illinois, Chicago

Speakers: Kimberly A. Espy, Ph.D.  
University of Nebraska, Lincoln  
*Beyond Diagnosis: Unpacking the Association of Prenatal Smoking and Exposure Across Developmental Periods*

Leslie K. Jacobsen, M.D.  
Yale University  
*Neuroimaging Evidence of Altered Medial Temporal Lobe Function in Adolescent Tobacco Smokers With Prenatal Exposure to Maternal Smoking*

Burt Sharp, M.D.  
University of Tennessee Health Science Center  
*Gestational Nicotine Alters Brain Nicotinic Cholinergic Receptor Expression in Dopaminergic Regions of Adolescents and Adults*

Frances Leslie, Ph.D.  
University of California, Irvine  
*Prenatal Nicotine Exposure Induces Sex-Dependent Changes in Dopamine Pathways in Adolescent Brain*

Wednesday, May 23, 2007 (continued)

2:00 p.m. – 5:00 p.m.      Symposium (Session #S68)  
**Innovations in the Treatment of Adolescent Substance Use Disorders**  
San Diego Convention Center, Upper Level, Room 30B

Co-Chairs:      Marc Galanter, M.D.  
New York University School of Medicine

Yifrah Kaminer, M.D.  
University of Connecticut Health Center

Discussants:      Wilson M. Compton, III, M.D.  
National Institute on Drug Abuse

Frances R. Levin, M.D.  
Columbia University

Speakers:      Jack R. Cornelius, M.D., M.P.H.  
University of Pittsburgh School of Medicine  
*Fluoxetine in Adolescents With Comorbid Major Depressive Disorder and an Alcohol Use Disorder: A Randomized, Double-Blind, Placebo-Controlled Trial*

John F. Kelly, Ph.D.  
Massachusetts General Hospital/Harvard Medical School  
*Evidence for Adolescent Participation in Alcoholics Anonymous and Narcotics Anonymous: Further Steps Needed*

Mark G. Myers, Ph.D.  
University of California, San Diego  
*Does Smoking Cessation Intervention Influence Adolescent Alcohol and Other Drug Abuse Treatment Outcome?*

Yifrah Kaminer, M.D.  
University of Connecticut Health Center  
*Aftercare for Adolescent Alcohol Use Disorders*

Shaded entries indicate NIDA-organized sessions.



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ON DRUG ABUSE

National Institutes of Health

